

Appl. No. 09/755,878
Amdt. dated October 27, 2003
Reply to Office Action of July 25, 2003

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A portable mobile unit capable of alerting on incoming of a signal by a ringing sound, comprising:

a ringing sound generator having a plurality of sound sources therewith;

a mixer for mixing a plurality of said sound sources; and

a controller for controlling operations of said portable mobile unit, wherein

said controller controls said ringing sound generator so as to generate the ringing sound using at least one two of said sound sources ~~upon basis of a predetermined condition~~ when the signal comes in.

2. (Currently Amended) A portable mobile unit as defined in claim 1, wherein
said controller selects one pattern from a plurality of patterns of the ringing sounds, each of which is composed of a combination of said sound sources based on the predetermined conditions, and controls said ringing sound generator to generate the ringing sound, and said ringing sound generator comprises: a memory for storing a plurality of sound data which are generated with different generation methods, respectively, a plurality of reproducer for reproducing said a plurality of sound data stored in accordance with the respective generation methods; and a reproduction timing memory for storing reproduction timings for selection of the sound data to be reproduced among said plurality of sound data and for formation of said patterns for the respective sound data selected, wherein said controller controls said reproducer,

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so as to reproduce said sound data selected in accordance with said reproduction timings,
respectively.

3. (Original) A portable mobile unit as defined in claim 2, wherein said plurality of sound data contains sound data of a wave form coding method, in which quantization width is set up depending upon a level of amplitude or power, and sound data of an analytic composition coding method, in which the signal is modeled so as to be coded.

4-7. (Cancelled)

8. (Currently Amended) A portable mobile unit capable of alerting on incoming of a signal by a ringing sound, comprising:

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a ringing sound generator for generating the ringing sound in accordance with a plurality of patterns made of combination of at least two sound sources; and

a controller for controlling operations of said portable mobile unit, wherein said controller controls said ringing sound generator, so as to generate the ringing sound when the signal comes in, by selecting at least one pattern from said plurality of patterns, each of which is formed with combination of said sound sources, based on a predetermined condition.

9. (Currently Amended) A portable mobile unit as defined in claim + 19, further comprising a timer, wherein said controller controls said ringing sound generator so as to generate the ringing sound when the signal comes predetermined condition is that time of incoming of the signal is contained within a time zone which is set up in advance.

10. (Currently Amended) A portable mobile unit as defined in claim + 19, further comprising a calendar function, wherein said controller controls said ringing sound generator so

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as to generate the ringing sound when the signal comes predetermined condition is that a day of incoming of the signal is contained within a period which is set up in advance.

11. (Currently Amended) A portable mobile unit as defined in claim + 19, further comprising a counter for counting number of times of incoming calls in absence from a specific person, wherein said controller controls said ringing sound generator so as to generate the ringing sound upon basis of a predetermined condition, said predetermined condition is that said number of times of incoming calls in absence is contained within a range of number of times which is set up in advance.

12. (Currently Amended) A portable mobile unit as defined in claim + 19, further comprising remaining battery capacity detector for detecting remaining battery capacity of the portable mobile unit, wherein said controller controls said ringing sound generator so to generate the ringing sound upon basis of a predetermined condition, said predetermined condition is that the remaining battery capacity is contained within a range of capacity which is set up in advance, when said signal comes in advance.

13. (Currently Amended) A portable mobile unit as defined in claim + 19, further comprising a sound detector for detecting condition of sounds, wherein said controller controls said ringing sound generator so as to generate the ringing sound upon basis of a predetermined condition, said predetermined condition is that an environmental sound of said portable mobile unit is contained within a condition of sound which is set up in advance, when said signal comes in advance.

14. (Currently Amended) A portable mobile unit as defined in claim + 19, further comprising sound volume level detector for detecting sound volume level, wherein said

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controller controls said ringing sound generator so as to generate the ringing sound upon basis of a predetermined condition, said predetermined condition is that the sound volume level in an environment of said portable mobile unit is contained within a range of sound volume level which is set up in advance, when said signal comes in advance.

15. (Currently Amended) A portable mobile unit as defined in claim + 19, further comprising at least either one of a heat sensor and a pressure sensor, wherein said controller controls said ringing sound generator so as to generate the ringing sound upon basis of a predetermined condition, said predetermined condition is to detect that said portable mobile unit is held in a hand of a user, by means of at least either one of said heat sensor and said pressure sensor, when said signal comes in.

16. (New) A portable mobile unit capable of alerting on incoming of a signal by a ringing sound, comprising:

a ringing sound generator having a plurality of sound generation protocols therewith; and
a controller for controlling operations of said portable mobile unit, wherein
said controller controls said ringing sound generator so as to generate the ringing sound using at least two of said sound generation protocols when the signal comes in.

17. (New) A portable mobile unit as defined in claim 16, further comprising a timer, wherein said controller controls said ringing sound generator so as to generate the ringing sound when the signal comes within a time zone which is set up in advance.

18. (New) A portable mobile unit as defined in claim 16, further comprising a calendar function, wherein said controller controls said ringing sound generator so as to generate the ringing sound when the signal comes within a period which is set up in advance.

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19. (New) A portable mobile unit capable of alerting on incoming of a signal by a ringing sound, comprising:

a ringing sound generator having a plurality of sound sources therewith; and
a controller for controlling operations of said portable mobile unit, wherein
said controller controls said ringing sound generator so as to generate the ringing sound
using at least two of said sound sources when the signal comes in.

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